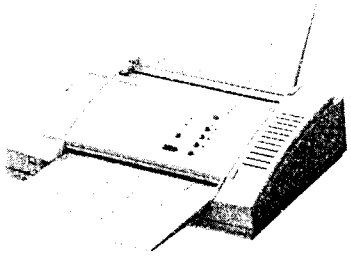
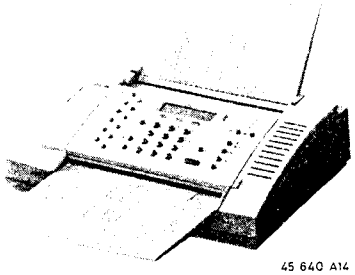
TeleFax

Service
Service
Service

PFC10/02/03/05/06/08/09/13/16
PFC20/02/03/05/06/08/09/13/16



45 639 A14



45 640 A14

ServiceManual

PFC10 The PFC10 is a fax with features according to the group 3 standard.
It includes a 5 sheet document feeder. The PFC10 needs an external phone to establish calls.

PFC20 The PFC20 is a fax with features according to the group 3 standard. It includes a 5 sheet document feeder. The PFC20 has the possibility to dial faxnumbers via the built in key pad. The key pad is also used for entering numbers to store for speed dialling or short dialling.
The LCD instructs you how to operate the fax. It also shows the date, time and page number.
Mechanically the PFC20 is identical to the PFC10.

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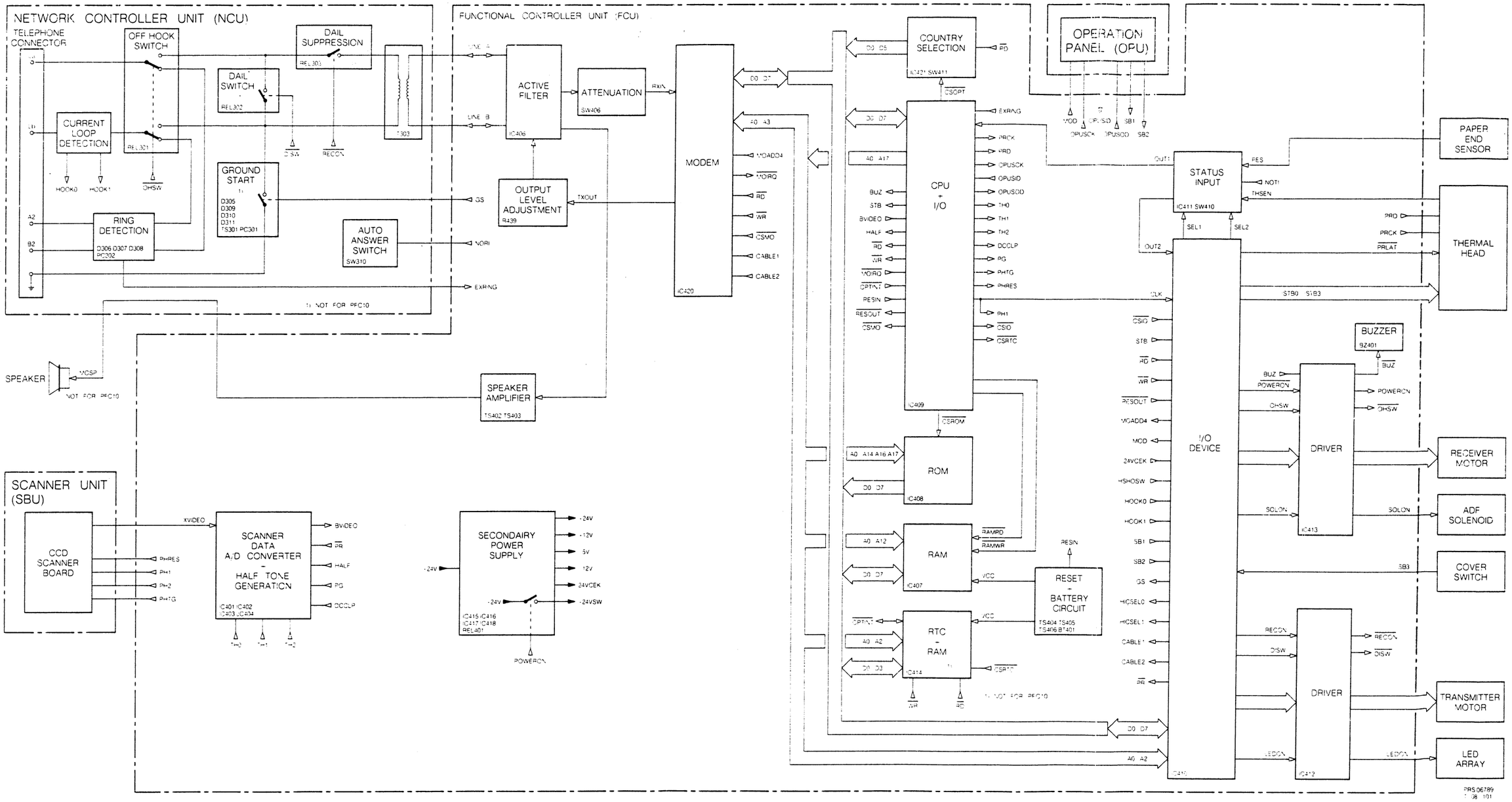
PHILIPS

CS 38 004

8. DIAGRAMS

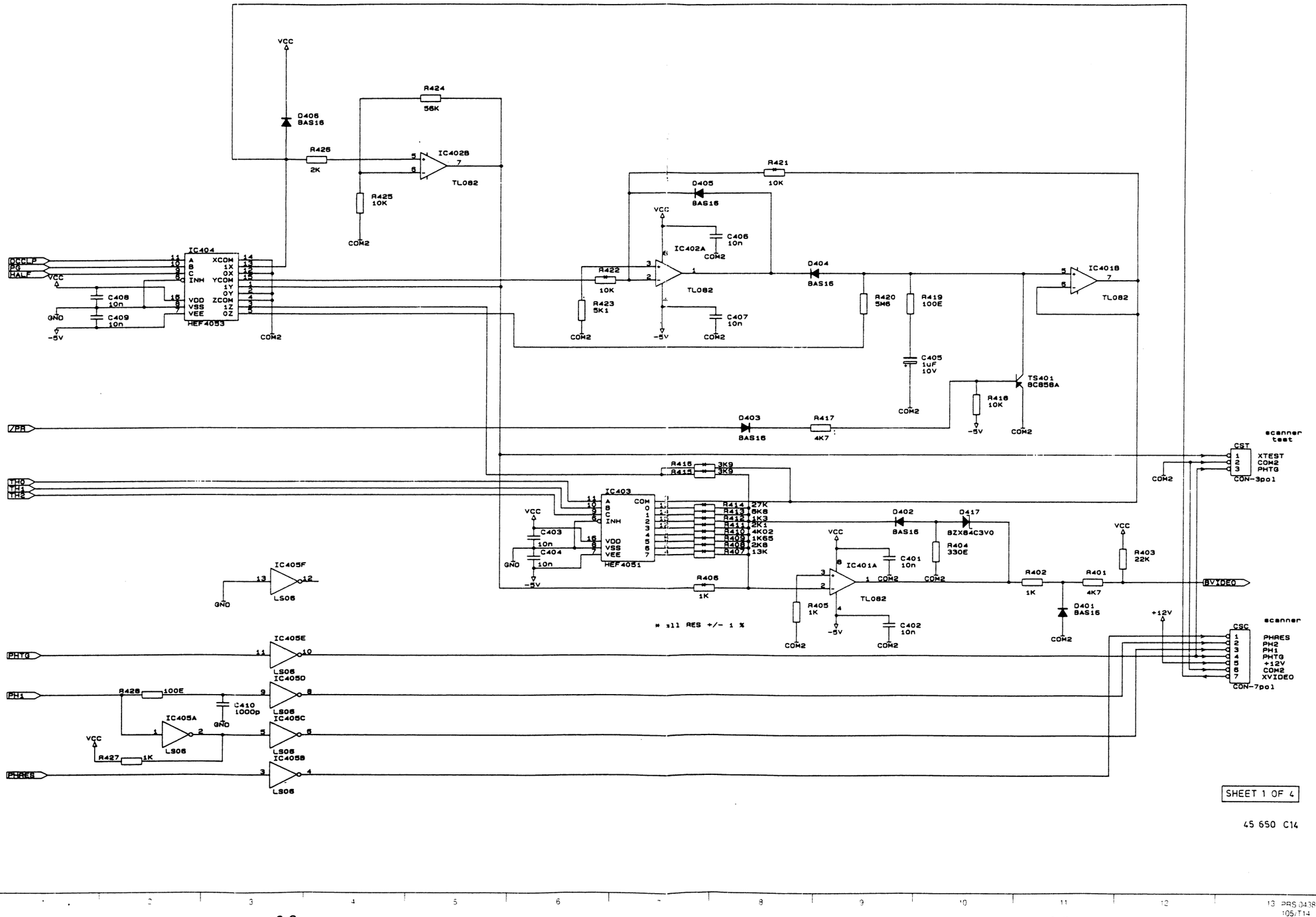
8-1. FUNCTIONAL DIAGRAM



8-1

8-2. ELECTRICAL DIAGRAM FCU

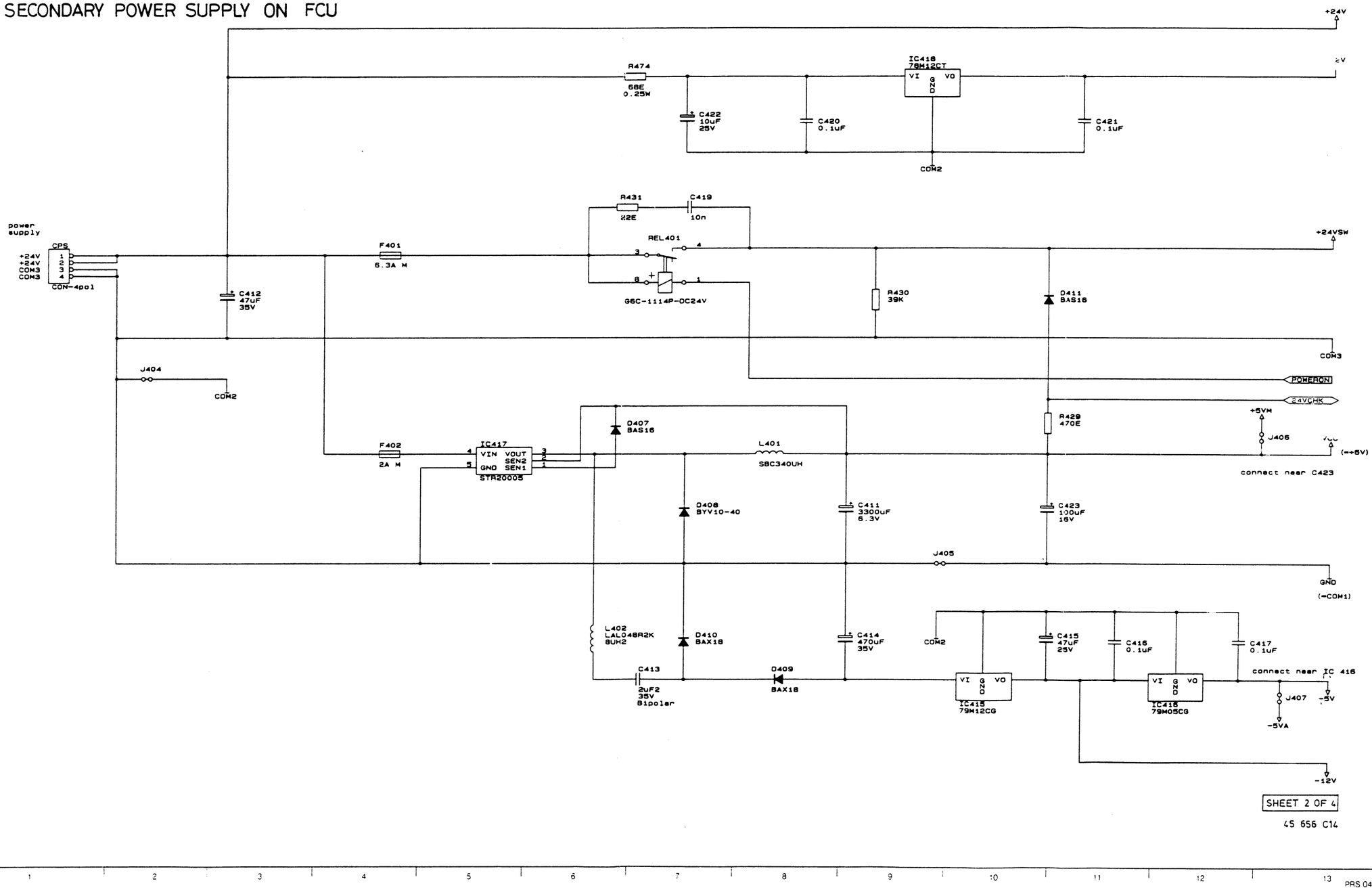
SCANNER INTERFACE ON FCU



CSC H13
CST F13
C401 G9
C402 H10
C403 F8
C403 G8
C404 G8
C405 E10
C406 D8
C407 E8
C408 E1
C409 E1
C410 I3
D401 H11
D402 G9
D404 D8
D405 C7
D406 C3
D417 G10
R401 G11
R402 G11
R403 G12
R404 G10
R405 H9
R406 G7
R407 G8
R408 G8
R409 G8
R410 G8
R411 G8
R412 G8
R413 G8
R414 G8
R415 F7
R416 F7
R417 F9
R418 E10
R419 D10
R420 D9
R421 C8
R422 D6
R423 E6
R424 B4
R425 D4
R426 C3
R427 I1
R428 I2
IC401 D11
IC401 G9
IC402 C5
IC402 D7
IC403 G6
IC404 D2
IC405 G3
IC405 H3
IC405 I2
IC405 I3
IC405 I3
IC405 I3
TS401 E11

C411 E9
C412 C3
C413 G7
C414 G9
C415 G11
C416 G11
C417 G13
C419 B7
C420 B8
C421 B11
C422 B7
C423 E11
D407 E7
D408 E7
D409 G8
D410 G7
D411 C11
F401 C4
F402 E4
J404 D2
J405 F10
J406 E13
J407 G13
L401 E8
L402 G6
R429 E11
R430 C9
R431 B7
R474 A7
CON-4 C1
REL401 C7
IC415 G10
IC416 G12
IC417 E5
IC418 A9

SECONDARY POWER SUPPLY ON FCU



8-3

CLI C1	C428 F12	C433 A4	C457 E13	C463 E13	Q401 D13	R435 C5	R440 D14	R480 A9	IC422B A9
C424 D13	C429 E13	C434 D5	C459 E11	C464 E10	R432 D14	R436 D6	R441 A6	R481 A10	IC406 A5
C425 E13	C430 B3	C436 A6	C460 B11	D412 D6	R433 D13	R437 E4	R477 A12	R482 C14	IC420 B11
C426 E13	C431 B4	C437 A3	C461 A9	D413 D7	R434 F11	R438 E6	R478 B11	R483 C14	SW406 B7
C427 F12	C432 A4	C438 E14	C462 A11	L403 D10	R435 A6	R439 E5	R479 A8	IC422A A12	TS402 D4

MODEM, LINE FILTER ON FCU

TO NETWORK CONTROL UNIT

CLI
CON-14pol
HSHOSW 14
LINE A 13
NORI 12
(COM2) LINE B 11
EXRING 10
/RECON 9
MOSP 8
+5V 7
HOOKO 6
HOOK1 5
COM1 4
/OHSW 3
/DISW 2
GS 1

C432 0.01uF
C433 0.01uF
C435 0.01uF
C436 0.01uF
C437 2.2uF 50V
C430 0.047uF 50V
C431 0.047uF 50V
C434 100uF 16V
C459 0.1uF
C460 820p
C461 1n
C462 4n7
C463 10p
C464 0.1uF
C425 10p
C426 10p
C427 10uF
C428 0.33uF
C429 0.1uF
C438 0.1uF

IC406 SUPPLY ACTIVE FILTER AFM915F MURATA GROUND
R441 10K
R435 820E
R436 2.0K
R437 560E
R438 560E
R439 200E
ADJ. OUTPUT LEVEL
SW406 0dB -3dB off
TS402 BC368
TS403 BC369
SPEAKER AMPL.
D412 2.7V
D413 2.7V

IC422B TL082
R479 46K4
R480 88K7
C461 1n
R481 3K0
C462 4n7

IC422A TL082
R477 24K3
C460 820p
R478 68K

IC420 A96MFX
D[0..7]
A[0..3]
MOADD4
/RD
/WR
/MOCS
/MOIRQ
CABLE1
CABLE2
TXOUT
RXIN
AUXI
DCLK
DCLKI
RTS
CTS
TXD
RXD
RLSD
PORI
PORO
RCVI
RCVO
ADIN
ADOUT
DAIN
DAOUT
ENBS
AEE
AGCIN
AOUT
FIN
FOUT
RCI
NC
XTLI
XTLO
12MHZ
6MHZ
+5VA
AGND2
AGND1
-5VA
+5VO
DGND2
DGND1
EYEX
EYEY
EYECLK
ECLKIN1
ECLKIN2
EYESYNC
SYNCIN1
SYNCIN2
R483 10K
R482 1K8
R433 10K
C424 0.1uF
R440 36K5
R432 2M7
Q401 24MHZ
L403 FERRITE BEAD
R434 3E

HSHOSW
NORI
EXRING
/RECON
HOOKO
HOOK1
/OHSW
/DISW
GS

* all RES +/- 1%

	SW406.1	SW406.2	SW406.3	SW406.4
AUSTRIA	OFF	ON	OFF	OFF
BELGIUM	OFF	ON	OFF	OFF
DENMARK	OFF	ON	OFF	OFF
FINLAND	OFF	ON	OFF	OFF
FRANCE	OFF	ON	OFF	OFF
GERMANY	OFF	ON	OFF	OFF
IRELAND	OFF	ON	OFF	OFF
ITALY	OFF	ON	OFF	OFF
NETHERLANDS	ON	ON	OFF	OFF
NORWAY	OFF	ON	OFF	ON
PORTUGAL	OFF	ON	OFF	OFF
SPAIN	OFF	ON	OFF	OFF
SWEDEN	OFF	ON	OFF	OFF
SWITZERLAND	OFF	OFF	ON	OFF
UNITED KINGDOM	OFF	ON	OFF	OFF

SWITCH	FUNCTION
SW 406.1	FREQUENCY CHARACTERISTIC (for f < 300 Hz)
SW 406.2	INPUT SENSITIVITY 0dB
SW 406.3	INPUT SENSITIVITY -3dB
SW 406.4	RETURN LOSS

SHEET 3 OF 4

45 657 C4

PRS 0431 105/T14

C439	D3	C447	G7	C455	B4	J402	E1	R448	B12	R456	B3	R464	C13	R471	F4	CON-2	H13	IC419	C8	SW412	B6
C440	B3	C448	F6	C456	B5	J403	E3	R449	B12	R457	G1	R465	C13	R472	F4	CON-3	B13	IC411	C11	TP401	F1
C441	E1	C449	G3	C458	F1	R442	A3	R450	B13	R458	A5	R466	C12	R473	E13	CON-6	G13	IC412	H12	TS404	G2
C442	F2	C450	E3	D414	H1	R443	E1	R451	G1	R459	A5	R467	E13	BT401	H3	CON-6	H13	IC413	F12	TS405	G2
C443	G2	C451	E3	D415	G3	R444	H1	R452	H2	R460	A5	R468	A5	BZ401	E13	CON-8	B1	IC414	G2	TS406	G1
C444	C11	C452	F6	D416	F2	R445	G1	R453	H8	R461	A6	R469	B1	CON-15	E13	IC407	G7	IC421	A4		
C445	E9	C453	H6	J401	G3	R446	G2	R454	E5	R462	E4	R470	B1	CON-2	G13	IC408	G4	SW410	C13		
C446	H7	C454	H2			R447	G3	R455	D6	R463	A5			CON-2	H13	IC409	C4	SW411	A6		

CPU, I/O INTERFACE ON FCU

operation board

COP
OPUSCK
OPUSID
OPUSOD
SB1
SB2
+5V
COM1
-5V/MOD
CON-8pol

R442 2K
R455 330E
C440 220p
R469 *2) 0E
R470 0E *1)
-5V
VCC
GND

IC421 74HCT365
D0 D1 D2 D3 D4 D5 D6 D7
Y1 Y2 Y3 Y4 Y5 Y6
A1 A2 A3 A4 A5 A6
G1 G2
C455 0.01uF
C456 220p
R458 R459 R460 R463 10K
R461 10K
R468 10K
SW411 SW DIP-5
SW412 SERVICE

/RD
/WR
/MOCS
/MOIRQ
MOADD4
CABLE1
CABLE2

D[0..7]
A[0..17]

IC409
A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
D7 D6 D5 D4 D3 D2 D1 D0
TH0 TH1 TH2 OCCLP PG PHTG PHRES PH1 8VIDEO HALF RD WR RAMRD RAMWR CSEIO CSROM CSRTC CSMO0 CSMO1 CSOPT MOINT OPTINT
OPUSCK OPUSID OPUSOD PRD PRCK THSEN RING1 RING2 BUZ X1 X2 RESIN RESOUT EXCLK STB
RF5A41
C447 56p
C448 220p
R455 330E
R454 10K
PH1
8VIDEO
HALF

IC410 UPD65006CW
A2 A1 A0 D7 D6 D5 D4 D3 D2 D1 D0
STB0 STB1 STB2 STB3 DTMFH DTMFL RD WR CS THSTB RESET CLK DISW0 DISW1 PIO2 PIO3 PIO4 PIO5 PIO6 PIO7
EXWR POA0 POA1 POA2 POA3 POA4 POA5 POA6 POA7 POB0 POB1 POB2 POB3 POB4 POB5 POB6 POB7 POC0 POC1 POC2 POC3 PIA0 PIA1 PIA2 PIA3 PIA4 PIA5 PIA6 PIA7
/PR
GS
HYCSEL0
HYCSEL1
HOOK0
HOOK1
HSHOSW
TNDET
24VCHK
C445 0.01uF

IC411 HEF4052
A B INH
XCOM 0X 1X 2X 3X
YCOM 0Y 1Y 2Y 3Y
VDD VSS VEE
C444 0.01uF
R466 10K
R465 10K
R464 10K
SW410
NORM

R449 75K 1%

PAPER END SENSOR
CCS +5V LEDCOM SB4
CON-3pol
R448 200E
R450 100K

CTH
COM3 +24VSW COM1 +5V RANK THSEN /STB3 /STB2 /STB1 /STB0 /PRLAT PRD PRCK
CON-15pol
thermal head

R467 180E
BZ401 BUZZER
R473 10K

IC414 (*2)
A3 A2 A1 A0 OSCOUT OSCIN TMOUT INTR D3 D2 D1 D0 CS RD WR VDD VSS
RP5C62
32.768KHz
Q402 *2)
C458 *2) 5-30p
C441 *2) 33p
R443 *2) 10K
TP401
C442 *2) 0.01uF
C439 1800p
Q403 11.5MHz
C450 33p
C451 33p
C449 *2) 220p
EXRING

R462 10K
C452 0.1uF

IC408 27C1001 *2) 27C256 *1)
A17 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
D7 D6 D5 D4 D3 D2 D1 D0
NC PGM VPP OE CE
R471 *2) 0E
R472 *1) 0E
C453 0.01uF

IC407 5184
A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
D7 D6 D5 D4 D3 D2 D1 D0
NC VCC GND CE2 CE1 OE WE
C446 0.01uF
R453 100K *4)

D416 BAS16
TS405 BC808-25
C443 10uF
R446 10k
D415 BAS16
R447 10K
J401
BT401 3V
R445 200E
TS406 BC858
R457 180E
D418 BZX84 B3V9
R451 10K
TS404 BC848
R444 470E
D414 BAS16
R452 100K
C454 1uF
R476 0E *3)

IC413 TD62083AP
IC412 TD62083AP
COM I1 I2 I3 I4 I5 I6 I7 I8 GND
O1 O2 O3 O4 O5 O6 O7 O8
+24V
POWERON
/OHSW
/OISW
/RECON
+24VSW

receiver motor
CRX +24VSW +24VSW RXMBB RXMB RXMAB RXMA
CON-6pol

CSO solenoid
SOLON +24VSW
CON-2pol

cover switch
CCSW SB3 COM1
CON-2pol

transmitter motor
CTX +24VSW +24VSW TXMBB TXMB TXMAB TXMA
CON-6pol

scanner ill.
CLD LEDON +24VSW
CON-2pol

on layout connected to COM3
on layout connected to COM3

PRINTHEADTYPE	SW410.1	SW410.2	SW410.3
ALL VERSIONS	OFF	OFF	OFF

COUNTRYSETTING	SW411.1	SW411.2	SW411.3	SW411.4	SW411.5
AUSTRIA	ON	ON	OFF	ON	ON
BELGIUM	OFF	ON	OFF	ON	ON
DENMARK	ON	OFF	OFF	ON	ON
FINLAND	OFF	OFF	OFF	ON	ON
FRANCE					
GERMANY	OFF	ON	ON	ON	ON
IRELAND	ON	ON	ON	OFF	ON
ITALY	OFF	OFF	ON	ON	ON
NETHERLANDS	ON	OFF	ON	OFF	ON
NORWAY	OFF	ON	ON	OFF	ON
PORTUGAL	ON	ON	OFF	OFF	ON
SPAIN	ON	OFF	OFF	OFF	ON
SWEDEN	ON	OFF	ON	OFF	ON
SWITZERLAND	OFF	OFF	ON	OFF	ON
UNITED KINGDOM	ON	OFF	ON	ON	ON

*1) PFC10 ONLY
*2) PFC20 ONLY

SHEET 4

45 658 C14

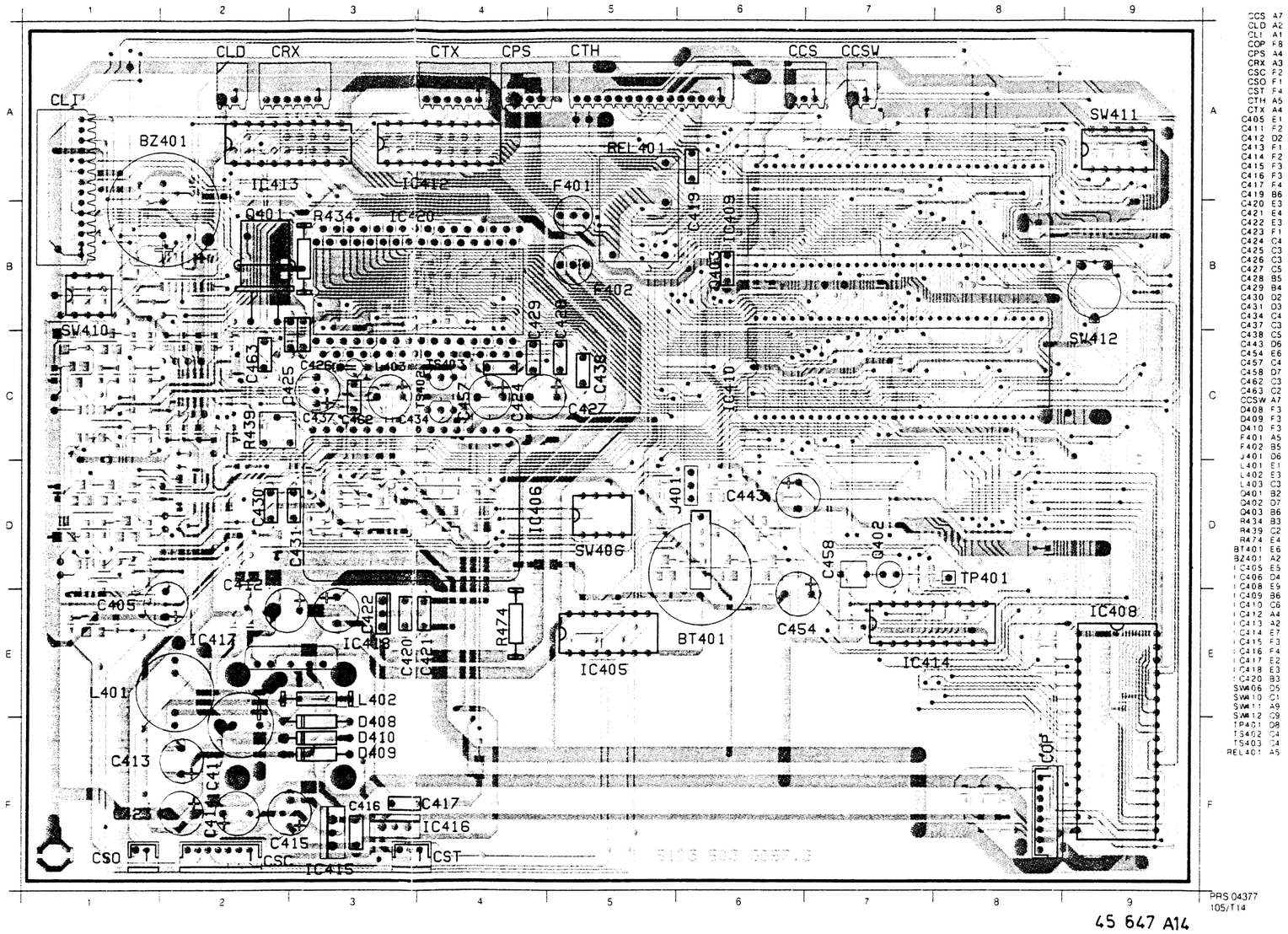
PRS 04388
105/KRAAK

8-5

CS 38 070

8-3. COMPONENT LAYOUT FCU

COMPONENT SIDE

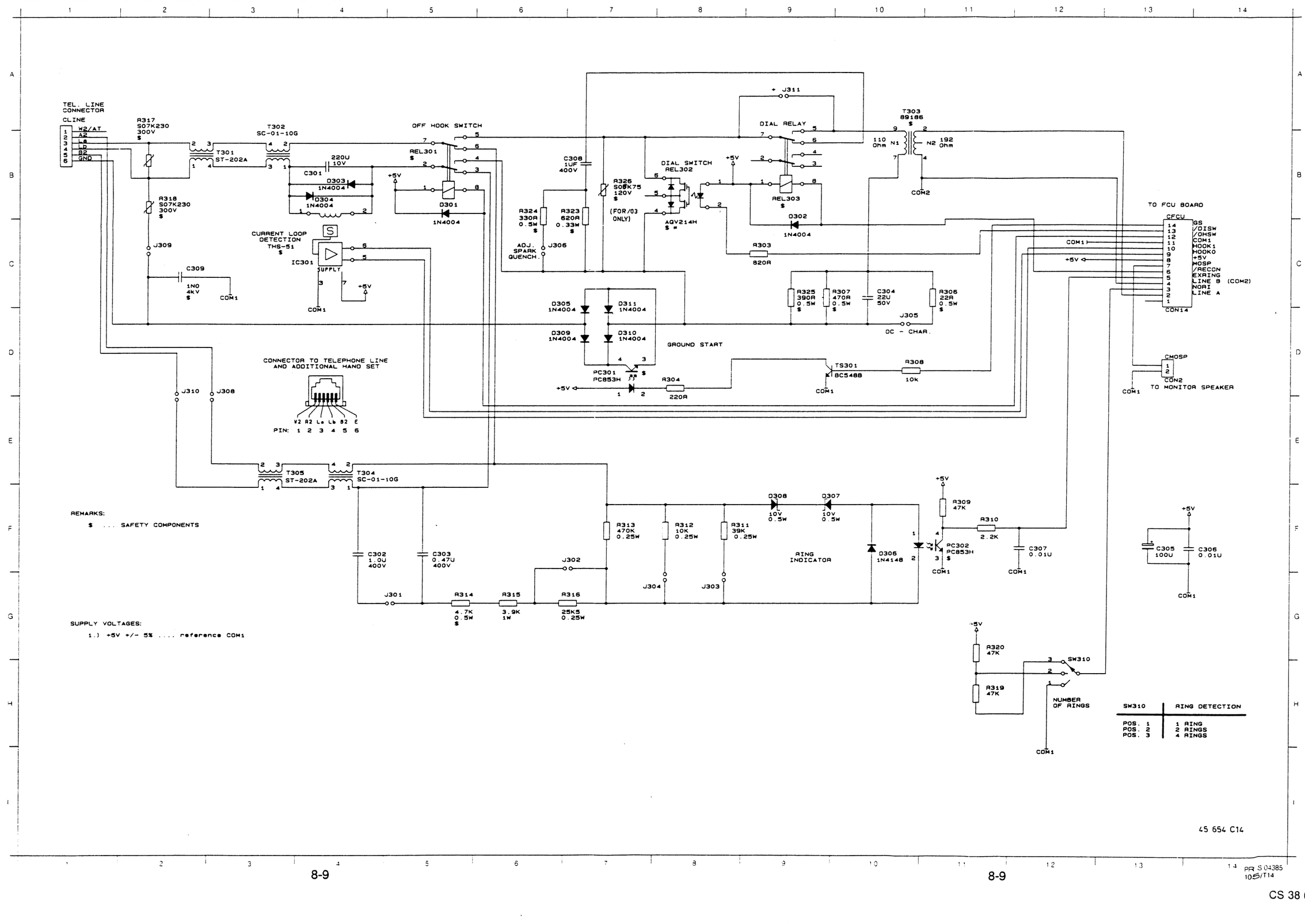


CCS A7
CLD A2
CLI A1
COP F8
CPS A4
CRX A3
CSC F2
CSO F1
CST F4
CTH A5
CTX A4
C405 E1
C411 F2
C412 D2
C413 F1
C414 F2
C415 F3
C416 F3
C417 F4
C419 B6
C420 E3
C421 E4
C422 E3
C423 F1
C424 C4
C425 C3
C426 C3
C427 C5
C428 B5
C429 B4
C430 D2
C431 D3
C434 C4
C437 C3
C438 C5
C443 D6
C454 E6
C457 C4
C458 D7
C462 C3
C463 C2
CCSW A7
D408 F3
D409 F3
D410 F3
F401 A5
F402 B5
J401 D6
L401 E1
L402 E3
L403 C3
Q401 B2
Q402 D7
Q403 B6
R434 B3
R439 C2
R474 E4
BT401 E6
BZ401 A2
IC405 E5
IC406 D4
IC408 E5
IC409 B6
IC410 C6
IC412 A4
IC413 A2
IC414 E7
IC415 F3
IC416 F4
IC417 E2
IC418 E3
IC420 B3
SW406 D5
SW410 C1
SW411 A9
SW412 C9
TP401 D8
TS402 C4
TS403 C4
REL401 A5

8-6

8-5. ELECTRICAL DIAGRAM NCU (PFC20)

C200 B3	C307 F12	D304 B4	D311 C7	J309 C2	R308 D10	R315 G6	R324 B6	T305 E4	PC302 F11
C201 B4	C308 B7	D305 C6	J301 G5	J310 C2	R309 F11	R316 G7	R325 C9	CON14 C13	PJ11C B1
C302 F4	C309 C2	D206 F10	J302 F7	J311 A9	R310 F11	R317 A2	R326 B7	REL301 B5	SW310 H12
C303 F5	CON2 D13	D307 F9	J303 G8	R303 C9	R311 F8	R318 B2	T301 B3	REL302 B8	TS301 D10
C304 C10	D301 B5	D308 F9	J304 G8	R304 D8	R312 F8	R319 H11	T302 A3	REL303 B9	
C305 F13	D302 B9	D309 D6	J305 D10	R306 C11	R313 F7	R320 G11	T303 A10	IC301 C4	
C306 F14	D303 B4	D310 D7	J308 D3	R307 C10	R314 G5	R323 B7	T304 E4	PC301 D7	



REMARKS:

$ ... SAFETY COMPONENTS

SUPPLY VOLTAGES:

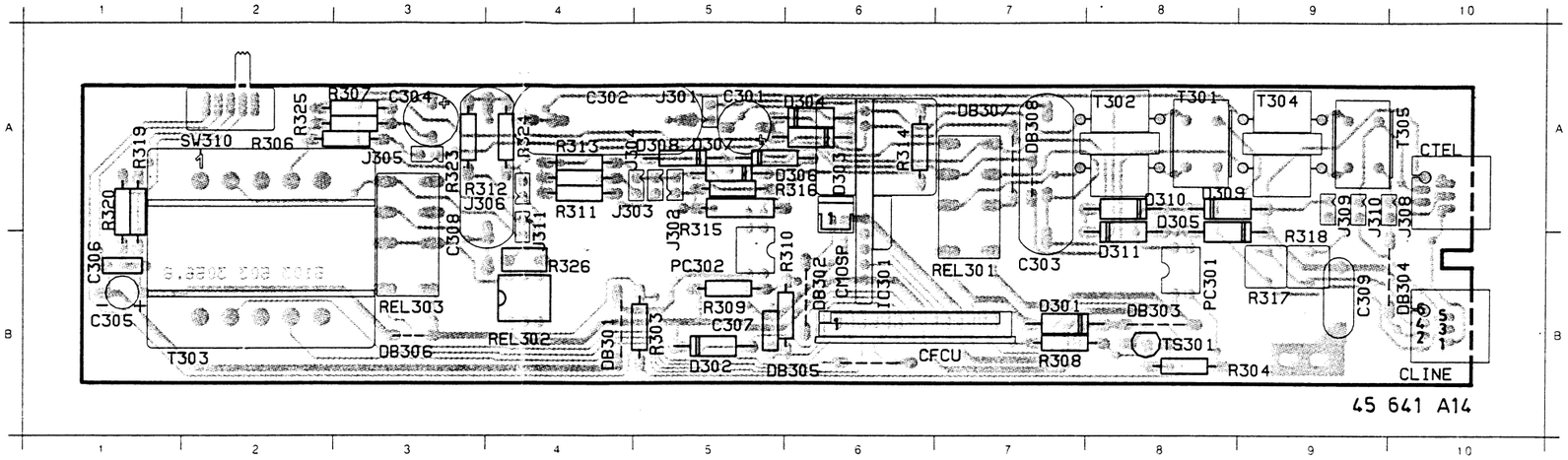
1.) +5V +/- 5% .... reference COM1

45 654 C14

PR S 04385
105/T14

8-6. COMPONENT LAYOUT NCU

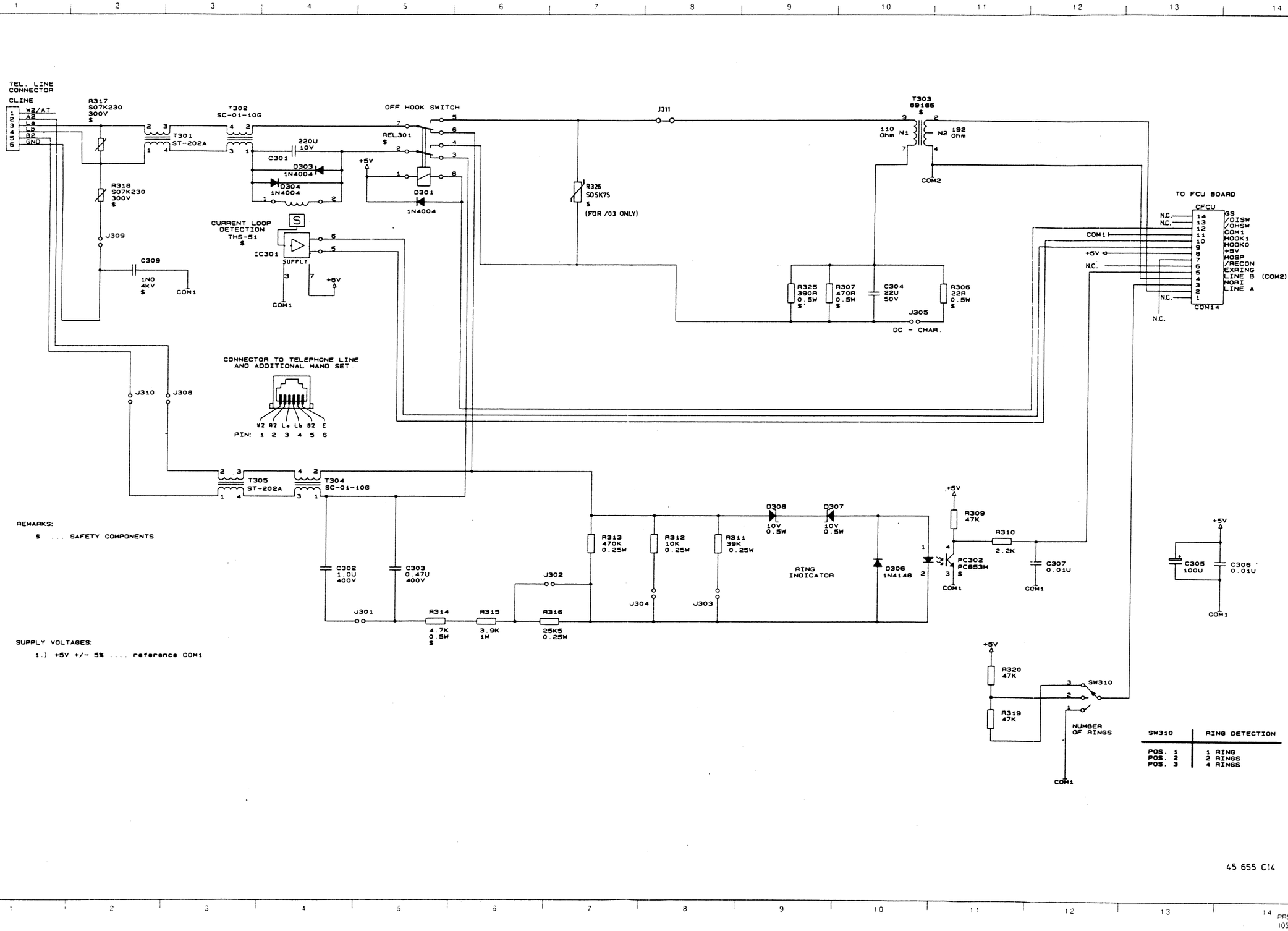
C301 A5	C309 B9	D306 A6	J303 A5	R303 B5	R312 A4	R320 A1	T304 A9	DB305 B6	REL30 B4
C302 A4	CFCU B7	D307 A5	J304 A4	R304 B9	R313 A4	R323 A3	T305 A10	DB306 B3	REL30 B7
C303 B7	CTEL A10	D308 A5	J305 A3	R306 A2	R314 A6	R324 A4	CLINE B10	DB307 A7	SW310 A2
C304 A3	D301 B7	D309 A8	J306 A4	R307 A3	R315 A5	R325 A2	CMOSP B6	DB308 A7	TS301 B8
C305 B1	D302 B5	D310 A8	J308 A10	R308 B7	R316 A6	R326 B4	DB301 B4	IC301 B6	
C306 B1	D303 A6	D311 B8	J309 A9	R309 B5	R317 B9	T301 A8	DB302 B6	PC301 B8	
C307 B5	D304 A6	J301 A5	J310 A9	R310 B6	R318 B9	T302 A8	DB303 B8	PC302 B5	
C308 B3	D305 A8	J302 A5	J311 A4	R311 A4	R319 A1	T303 B2	DB304 B10	REL30 B3	



8-10

8-4. ELECTRICAL DIAGRAM NCU (PFC10)

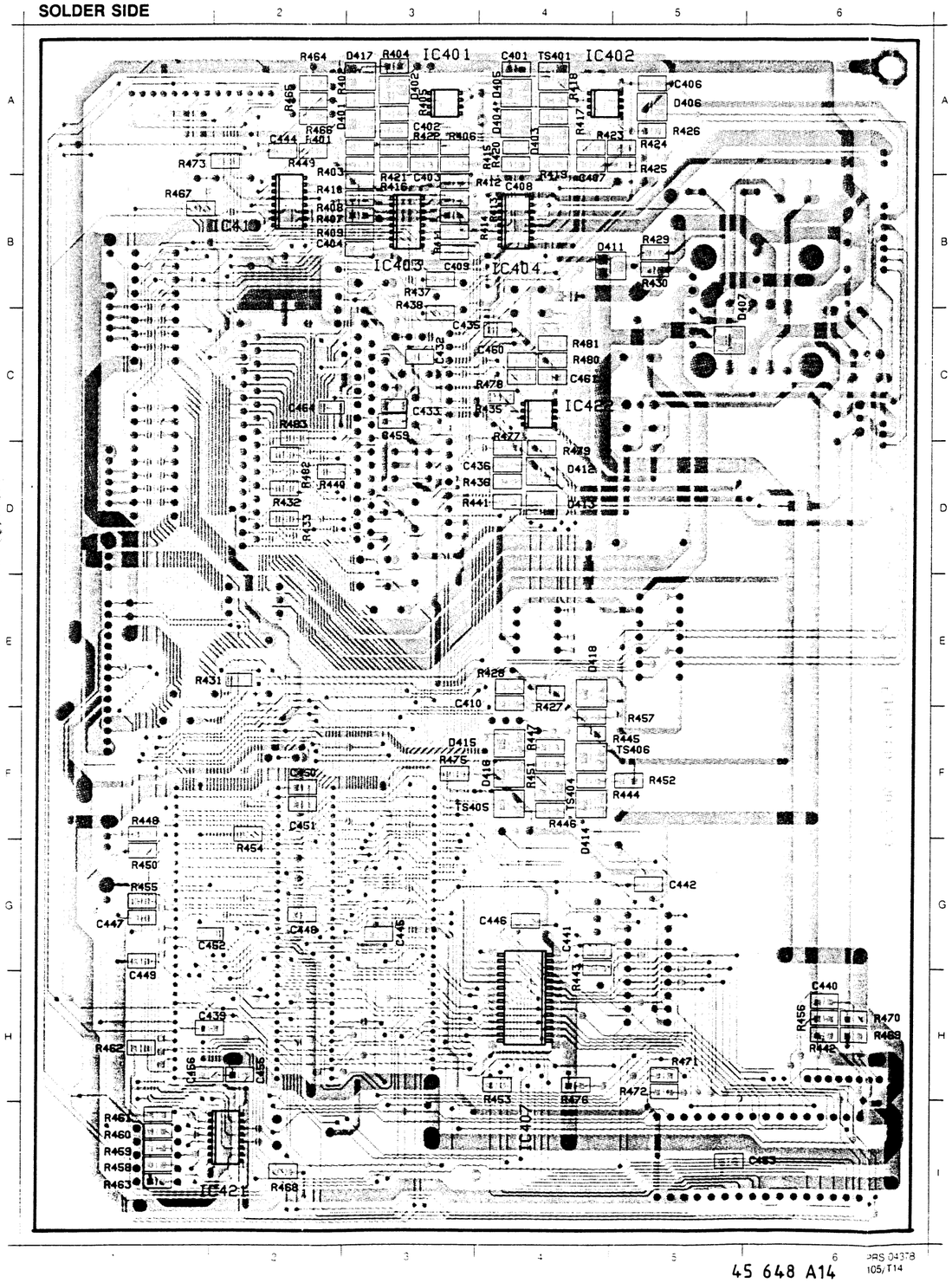
C301 B4	C306 F14	D304 B4	J303 G8	J310 D2	R310 F11	R315 G6	R320 G11	T303 A10	REL30 B5
C302 A4	C307 F12	D306 F10	J304 F8	J311 A8	R311 F8	R316 G7	R325 C9	T304 E4	RJ11C B1
C303 F5	C309 C2	D307 E10	J305 C10	R306 C11	R312 F8	R317 A2	R326 B7	T305 E4	SW310 G12
C304 C10	D301 B5	D308 E9	J308 D3	R307 C10	R313 F7	R318 B2	T301 B3	IC301 C4	
C305 F13	D303 B4	J302 F7	J309 C2	R309 F11	R314 G5	R319 H11	T302 A3	PC302 F11	



8-8

C401	A4	C436	D4	C451	F2	D401	A4	R401	A2	R413	B4	R425	A5	R438	C3	R451	F4	R463	I1	R476	I4	IC401	A2
C402	A3	C439	H2	C452	G2	D405	A4	R402	A2	R414	B4	R426	A5	R440	D2	R452	F5	R464	A2	R477	C4	IC402	B2
C403	B3	C440	H6	C453	H6	D406	A5	R403	A2	R415	A4	R427	F4	R441	D4	R453	H4	R465	A2	R478	C4	IC421	I2
C404	B2	C441	G4	C455	H2	D407	C5	R404	A3	R416	B3	R428	E4	R442	H6	R454	G2	R466	A2	R479	D4	IC422	C4
C406	A5	C442	G5	C456	H1	D411	B5	R405	A3	R417	A4	R429	B5	R443	H4	R455	G1	R467	B1	R480	C4	TS401	A4
C407	B4	C444	A2	C459	C3	D412	D4	R406	A3	R418	A4	R430	B5	R444	F5	R456	H6	R468	I2	R481	C4	TS404	F4
C408	B4	C445	G3	C460	C4	D413	D4	R407	B2	R419	A4	R431	E2	R445	F5	R457	F5	R469	H6	R482	D2	TS405	F4
C409	B3	C446	G4	C461	C4	D414	G4	R408	B2	R420	A4	R432	D2	R446	F4	R458	I1	R470	H6	R483	C2	TS406	F5
C410	F3	C447	G1	C464	C2	D415	F3	R409	B2	R421	B3	R433	D2	R447	F4	R459	I1	R471	H5	IC401	A3		
C432	C3	C448	G2	D401	A2	D416	F4	R410	B2	R422	A3	R435	C4	R448	F1	R460	I1	R472	H5	IC402	A5		
C433	C3	C449	H1	D402	A3	D417	A3	R411	B3	R423	A5	R436	D4	R449	A2	R461	I1	R473	A1	IC403	B3		
C435	C3	C450	F2	D403	A4	D418	E4	R412	B4	R424	A5	R437	B3	R450	G1	R462	H1	R475	F3	IC404	B4		

SOLDER SIDE



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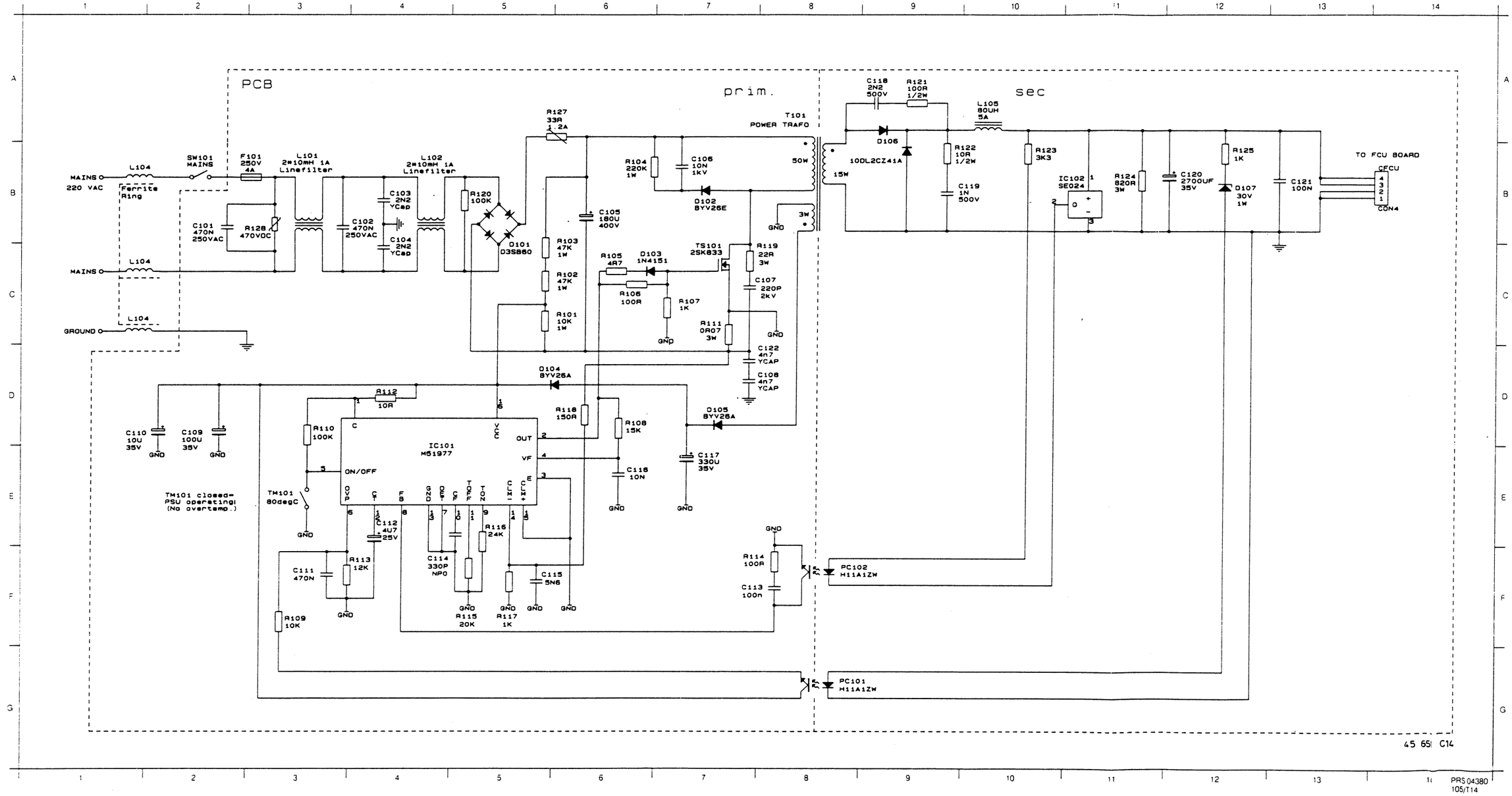
8-7

8-7. ELECTRICAL DIAGRAM POWER SUPPLY

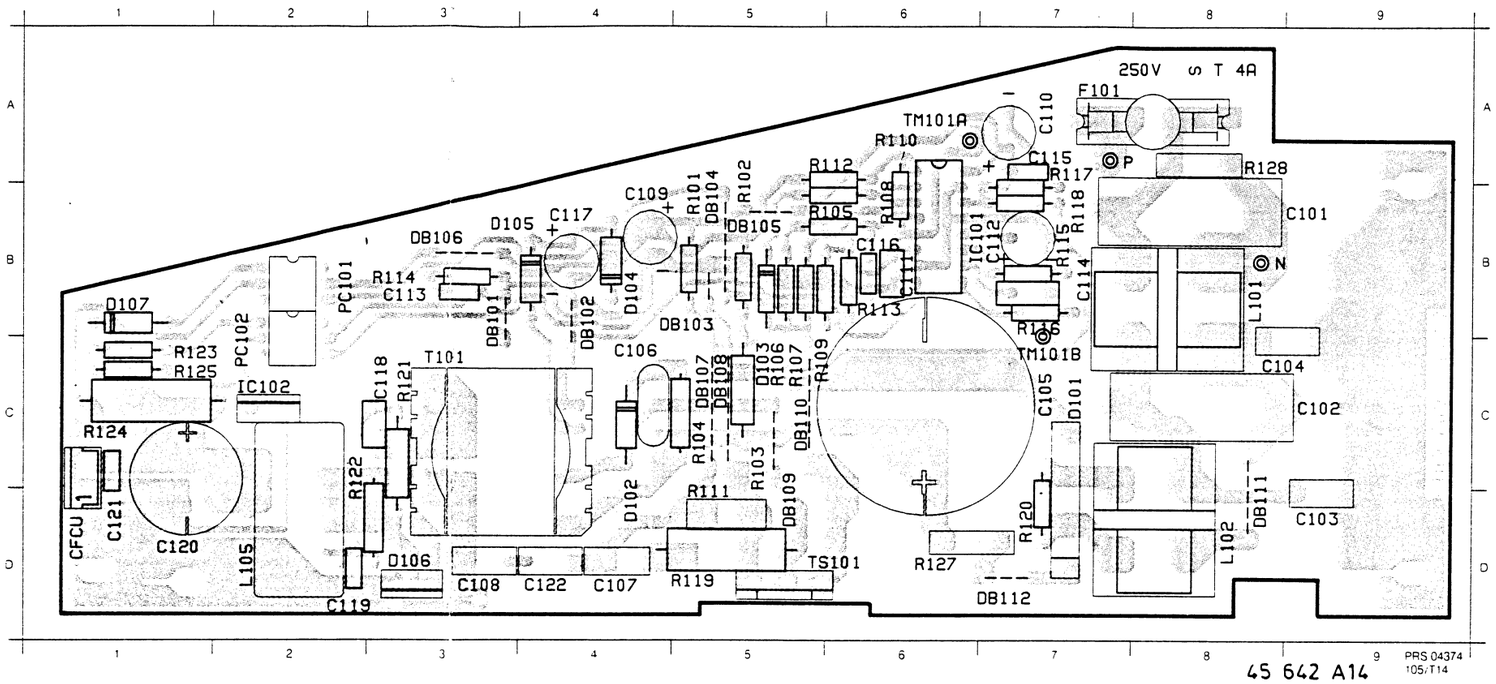
C101 B2 C102 B4 C103 B4 C104 B4 C105 B6 C106 B7 C107 B12 C107 C8 C108 D8 C109 D2 C110 D1 C111 F3 C112 E4 C113 F7 C114 F4 C115 F6 C116 E6 C117 E7 C118 A9 C119 B10 C120 B12 C121 B13 C122 D8 CON4 B14 D101 B5 D102 B7 D103 C6 D104 D5 D105 D7 D106 A9 F101 B3 L101 B3 L102 B4 L104 B1 L104 C1 L104 C1 L105 A10 R101 C6 R102 C6 R103 B6 R104 B6 R105 C6 R105 C6 R107 C7 R108 D6 R109 F3 R110 D3 R111 C7 R112 D4 R113 F4 R114 E7 R115 F5 R116 E5 R117 F5 R118 D6 R119 C8 R120 B5 R121 A9 R122 B10 R123 B10 R124 B11 R125 B12 R127 A6 R128 B3 I C101 E4 I C102 B11 PC101 G8 PC102 F8 SW101 B2 TM101 E3 TS101 C7



8-11

8-8. COMPONENT LAYOUT POWER SUPPLY

C101 B9
C102 C9
C103 D9
C104 C8
C105 C7
C106 C4
C107 D4
C108 D3
C109 B4
C110 A7
C111 B6
C112 B7
C113 B3
C114 B7
C115 A7
C116 B6
C117 B4
C118 C3
C119 D2
C120 D1
C121 D1
C122 D4
CFCU D1
D101 C7
D102 D4
D103 C5
D104 B4
D105 B3
D106 D3
D107 B1
F101 A7
L101 B8
L102 D8
L105 D2
R101 B5
R102 B5
R103 C5
R104 C5
R105 B5
R106 C5
R107 C5
R108 B6
R109 C5
R110 A6
R111 D5
R112 A5
R113 B6
R114 B3
R116 B7
R117 A7
R118 B7
R119 D5
R120 D7
R121 C3
R122 C2
R123 C1
R124 C1
R125 C1
R127 D6
R128 A8
T101 C3
DB101 B3
DB102 B4
DB103 B5
DB104 B5
DB105 B5
DB106 B3
DB107 C5
DB108 C5
DB109 D5
DB110 C5
DB111 D8
DB112 D7
IC101 B6
IC102 C2
TM101A A6
TM101B C7
PC101 B2
PC102 C2
TS101 D6



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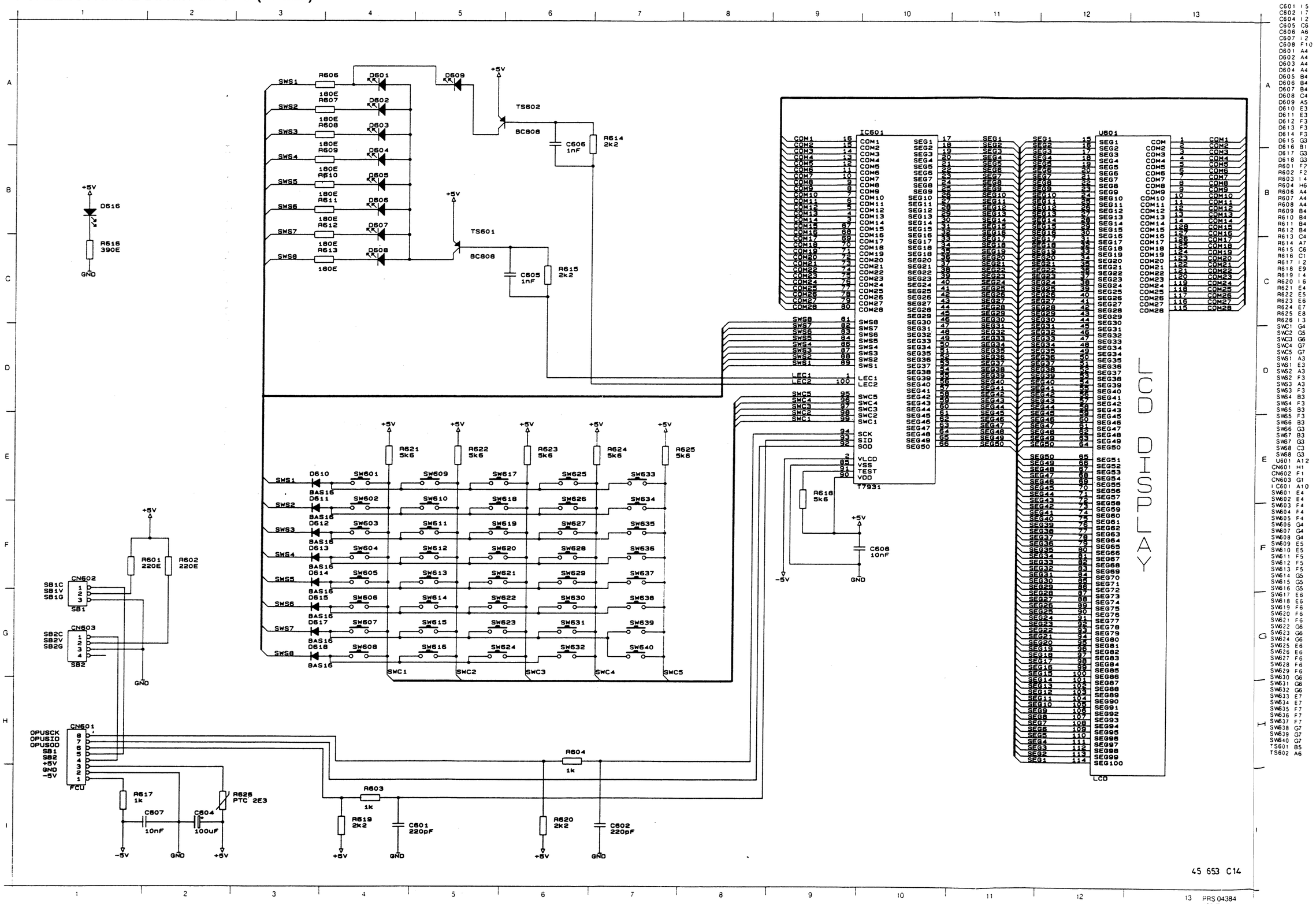
8-9. ELECTRICAL DIAGRAM OPU (PFC20)

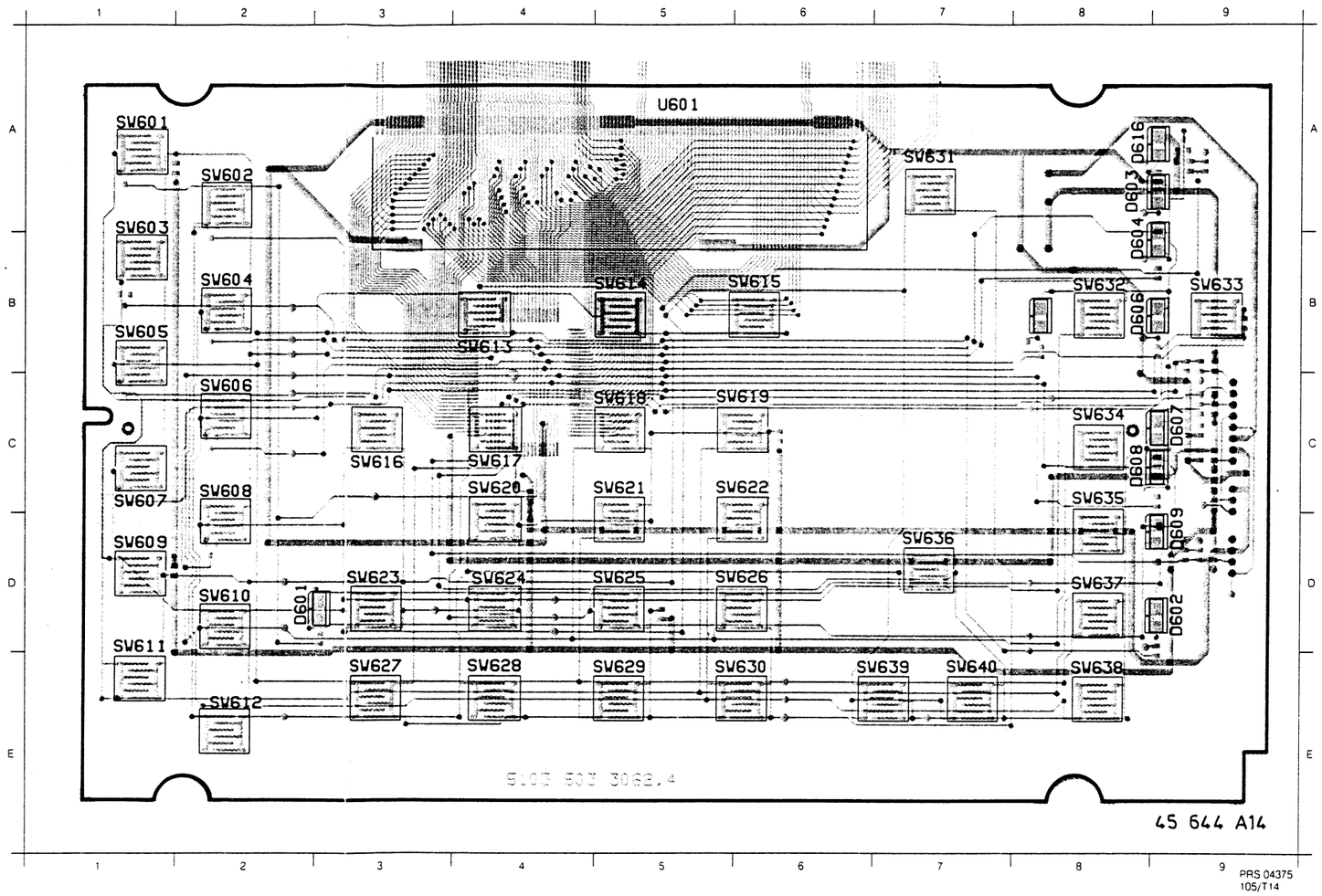


C601 I 5
C602 I 7
C604 I 2
C605 C6
C606 A6
C607 I 2
C608 F10
D601 A4
D602 A4
D603 A4
D604 A4
D605 B4
D606 B4
D607 B4
D608 C4
D609 A5
D610 E3
D611 E3
D612 F3
D613 F3
D614 F3
D615 G3
D616 B1
D617 G3
D618 G3
R601 F2
R602 F2
R603 I 4
R604 H6
R606 A4
R607 A4
R608 A4
R609 B4
R610 B4
R611 B4
R612 B4
R613 C4
R614 A7
R615 C6
R616 C1
R617 I 2
R618 E9
R619 I 4
R620 I 6
R621 E4
R622 E5
R623 E6
R624 E7
R625 E8
R626 I 3
SWC1 G4
SWC2 G5
SWC3 G6
SWC4 G7
SWC5 G7
SWS1 A3
SWS1 E3
SWS2 A3
SWS2 F3
SWS3 A3
SWS3 F3
SWS4 B3
SWS4 F3
SWS5 B3
SWS5 F3
SWS6 B3
SWS6 G3
SWS7 B3
SWS7 G3
SWS8 C3
SWS8 G3
U601 A12
CN601 H1
CN602 F1
CN603 G1
IC601 A10
SW601 E4
SW602 E4
SW603 F4
SW604 F4
SW605 F4
SW606 G4
SW607 G4
SW608 G4
SW609 E5
SW610 E5
SW611 F5
SW612 F5
SW613 F5
SW614 G5
SW615 G5
SW616 G5
SW617 E6
SW618 E6
SW619 F6
SW620 F6
SW621 F6
SW622 G6
SW623 G6
SW624 G6
SW625 E6
SW626 E6
SW627 F6
SW628 F6
SW629 F6
SW630 G6
SW631 G6
SW632 G6
SW633 E7
SW634 E7
SW635 F7
SW636 F7
SW637 F7
SW638 G7
SW639 G7
SW640 G7
TS601 B5
TS602 A6

8-10. COMPONENT LAYOUT OPU (PFC20)

COMPONENT SIDE

D601 D2	D609 D9	SW604 B2	SW611 D1	SW619 C6	SW626 D6	SW633 B9	SW640 E7		
D602 D9	D616 A8	SW605 B1	SW612 E2	SW620 C4	SW627 E3	SW634 C8			
D603 A8	U601 A5	SW606 C2	SW613 B4	SW621 C5	SW628 E4	SW635 C8			
D604 B8	SW601 A1	SW607 C1	SW614 B5	SW622 C6	SW629 E5	SW636 D7			
D606 B8	SW601 C3	SW608 C2	SW615 B6	SW623 D3	SW630 E6	SW637 D8			
D607 C9	SW602 A2	SW609 D1	SW617 C4	SW624 D4	SW631 A7	SW638 E8			
D608 C8	SW603 A1	SW610 D2	SW618 B5	SW625 D5	SW632 B8	SW639 E7			



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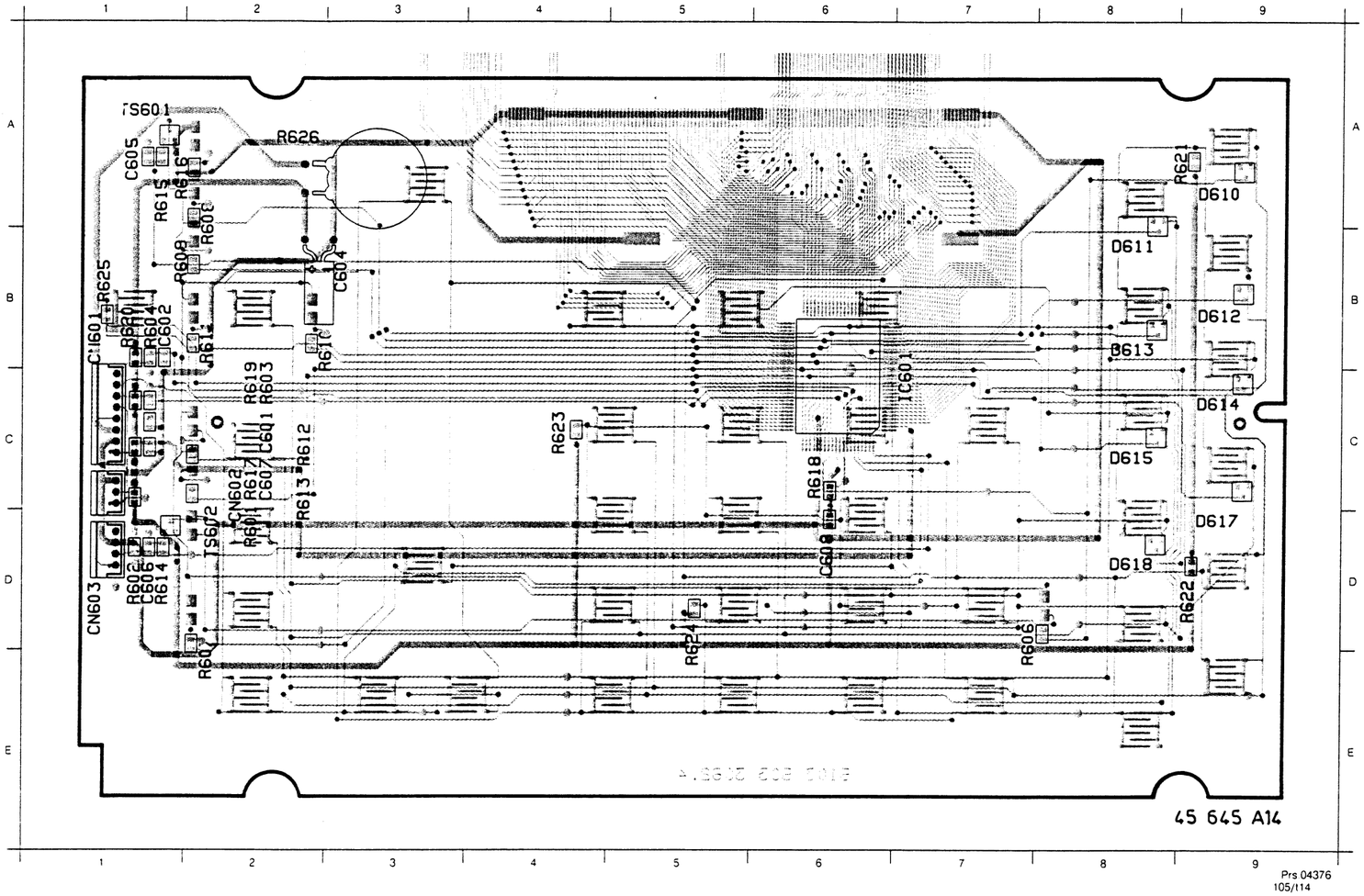
SOLDER SIDE

C601 C2	C607 C2	D613 B8	R602 D1	R608 A2	R613 C2	R618 C6	R624 D5	CN603 D1
C602 B1	C608 D6	D614 C9	R603 C2	R609 B1	R614 D1	R619 C2	R625 B1	IC601 C7
C604 B2	D610 A9	D615 C8	R604 B1	R610 B2	R615 A1	R620 B1	R626 A2	TS601 A1
C605 A1	D611 B8	D617 D9	R606 D7	R611 B2	R616 A1	R621 A9	CN601 B1	TS602 D2
C606 D1	D612 B9	R601 D2	R607 E2	R612 C2	R617 C2	R623 C4	CN602 C2	



Prs 04376
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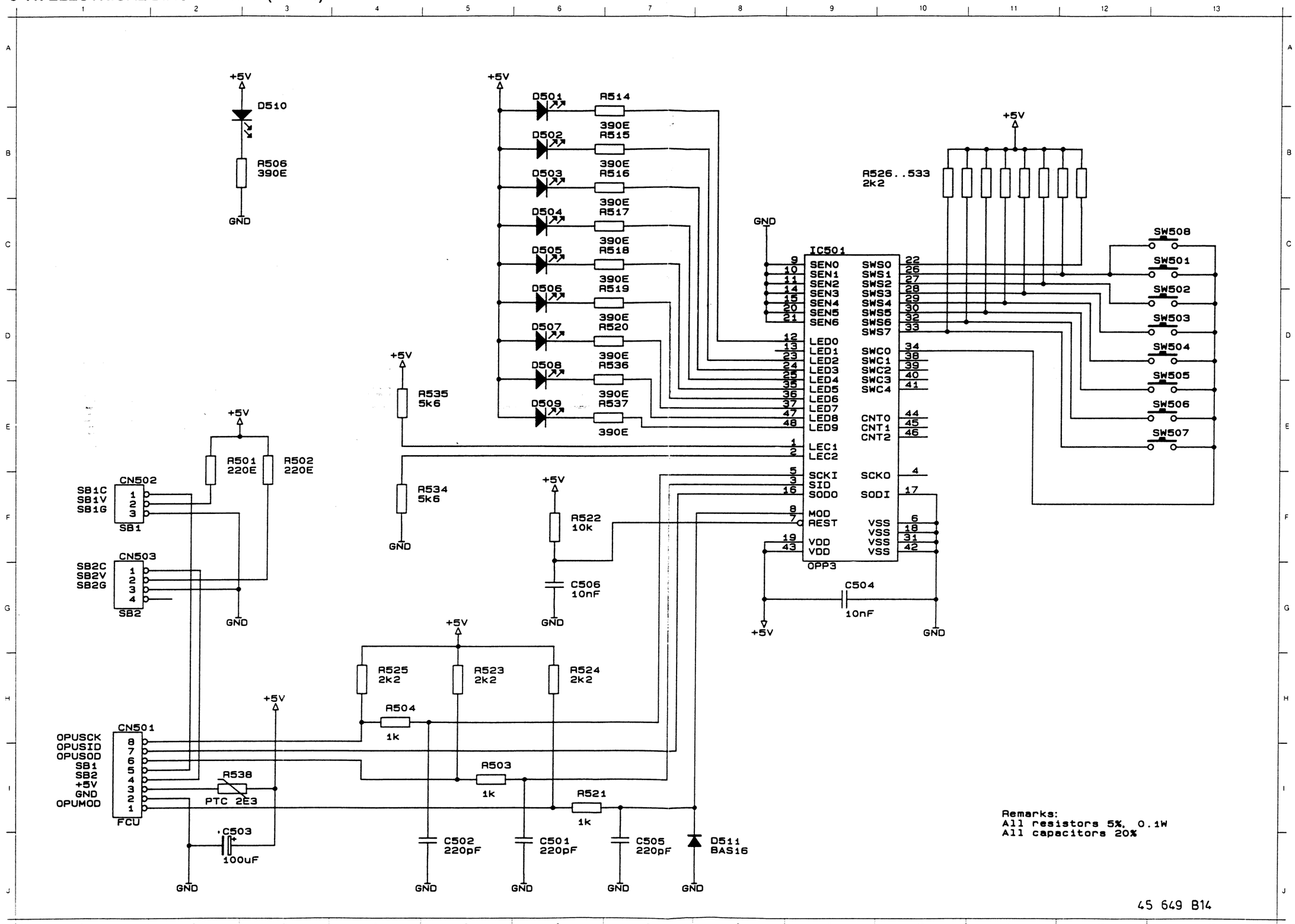
8-11. ELECTRICAL DIAGRAM OPU (PFC10)



C501 I 6
C502 I 5
C503 I 3
C504 G9
C505 I 7
D501 A6
D502 B6
D503 B6
D504 C6
D505 C6
D506 C6
D507 D6
D508 D6
D509 E6
D510 A3
D511 I 8
R501 E3
R502 E3
R503 I 6
R504 H5
R506 B3
R514 A7
R515 B7
R516 B7
R517 C7
R518 C7
R519 C7
R520 D7
R521 I 7
R523 H5
R524 H6
R525 H4
R526 B10
R527 B10
R528 B10
R529 B10
R530 B10
R531 B10
R532 B10
R533 B10
R534 F5
R535 E5
R536 D7
R537 E7
R538 I 3
CN501 H2
CN502 E2
CN503 F2
IC501 C9
SW501 C13
SW502 C13
SW503 D13
SW504 D13
SW505 D13
SW506 E13
SW507 E13
SW508 C13

Remarks:
All resistors 5%, 0.1W
All capacitors 20%

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PRS 04379
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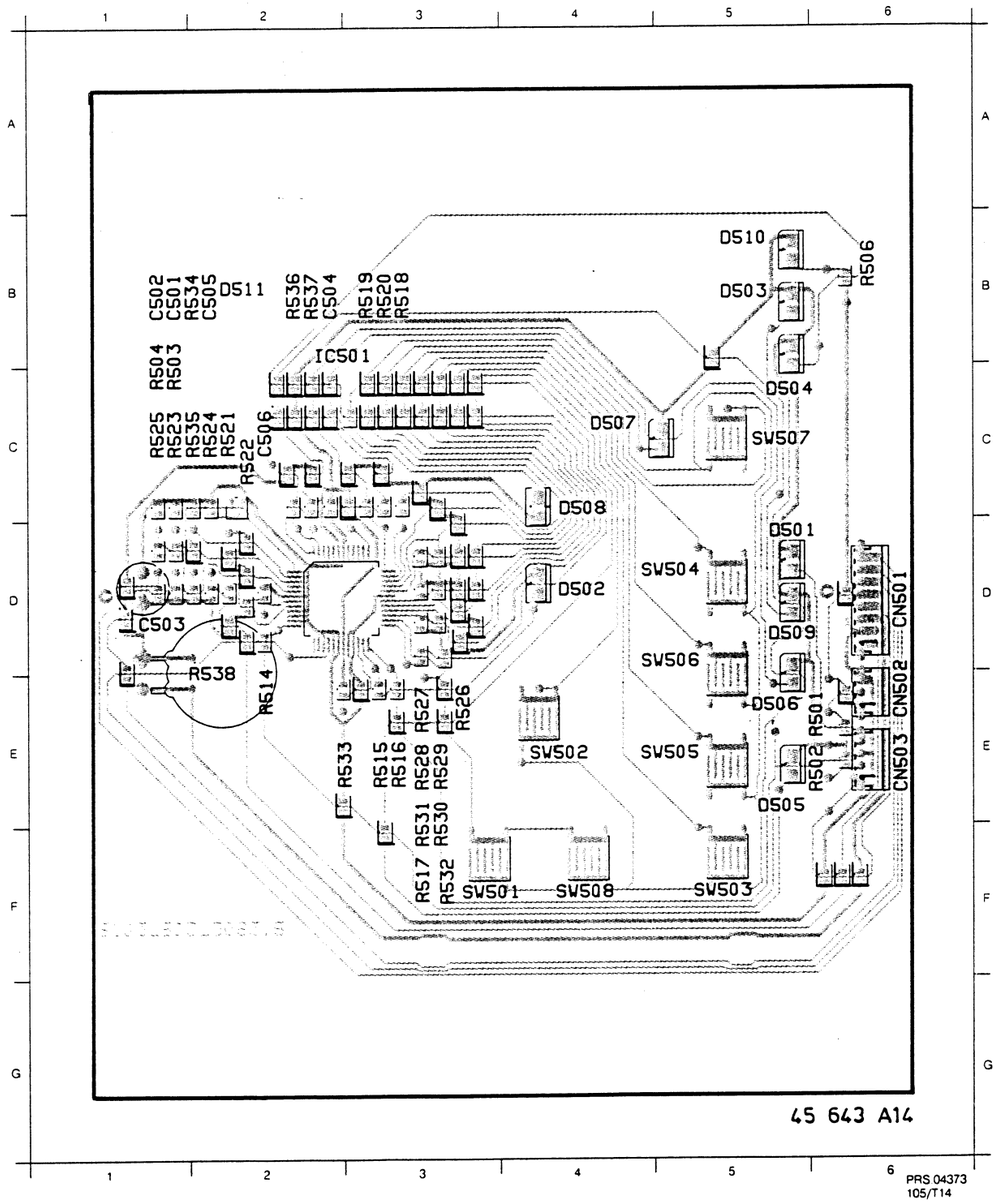
CS 38 081

8-12. COMPONENT LAYOUT OPU (PFC10)

C501 B1	D501 D5	D512 B2	R515 E3	R521 C2	R527 E3	R533 E3	CN501 D6	SW503 F5
C502 B1	D502 D4	R501 E6	R516 E3	R522 C2	R528 E3	R534 B2	CN502 E6	SW504 D5
C503 D1	D505 E5	R502 E6	R517 F3	R523 C1	R529 E3	R535 C2	CN503 E6	SW505 E5
C504 B2	D506 E5	R503 C1	R518 B3	R524 C2	R530 F3	R536 B2	IC501 B3	SW506 D5
C505 B2	D508 C4	R504 B1	R519 B3	R525 C1	R531 F3	R537 B2	SW501 F3	SW507 C5
C506 C2	D509 D5	R514 E2	R520 B3	R526 E3	R532 F3	R538 E2	SW502 E4	SW508 F4



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8-13. ELECTRICAL DIAGRAM SBU

C701 F3	CFCU C2	R705 C6	R710 E6	R715 E13	IC701E D5	ZD701 D13
C702 F3	R701 B3	R706 C6	R711 A6	IC701A C5	IC701F E5	
C703 F8	R702 B3	R707 D6	R712 C8	IC701D C5	IC702 C9	
C704 F9	R703 B4	R708 D6	R713 B12	IC701C D5	TS701 C12	
C705 D14	R704 B4	R709 E6	R714 E12	IC701B D5	TS702 C13